



*Exacting Standards, Just Like Yours, since 1948*

**SRM60/SRM80**

**Swing Ring Series**

**SRM60/SRM80 PLANETARY MIXERS**

**Maintenance & Parts Manual**

**SRM60/SRM80**



Persons under the age of 18 are not permitted to operate or have accessibility to operate this equipment per U.S. Dept. of Labor Employment Standards Administration Fact Sheet No. ESA91-3.

## Welcome to Univex

*Thank you for purchasing this Univex product.*

*Your new SRM60+/SRM80+ Mixer has been designed with advanced performance and safety features that make it an excellent addition to your food preparation equipment. Like all Univex mixers, slicers, meat grinders and accessories, this mixer is engineered to provide years of reliable service.*

*If you have any questions concerning the operation of this unit, or if we can be of further assistance, please call our Customer Service Department.*

### **Univex Customer Service:**

**USA & Canada 800-256-6358 • International 603-893-6191**

### **Safety is our Top Priority**

**READ AND MAKE SURE THAT YOU UNDERSTAND THE INSTRUCTIONS AND SAFETY WARNINGS IN THIS BOOKLET BEFORE ATTEMPTING TO OPERATE THE MIXER OR ATTACHMENTS.**

**NEVER PUT FINGERS OR HANDS IN THE BOWL WHILE THE MIXER IS OPERATING OR SERIOUS INJURY COULD RESULT.**

**NEVER ATTEMPT TO CLEAR A JAMMED ATTACHMENT OR STALLED MIXER WITHOUT SHUTTING THE POWER OFF. DISCONNECT THE ELECTRICAL PLUG FROM ELECTRICAL OUTLET.**

**ALWAYS REPLACE THE POWER TAKE-OFF (PTO) CAP WHEN ATTACHMENTS ARE NOT IN USE.**

**DO NOT OPERATE THIS MIXER WITHOUT THE BOWL IN PLACE**

### **WARRANTY**

The Univex SRM60+/SRM80+ Mixer is warranted by Univex Corporation against defects in materials and workmanship for a period of one year from date of delivery if delivered to a destination in the United States or Canada.

Contact Univex Customer Service to report any warranty claim. Univex shall not be liable for any consequential, compensatory, incidental, or special damages. damages incurred in transit or from installation error, accident, alteration, or misuse are not covered. Transit damages should be reported to the carrier immediately.

If the SRM60+/SRM80+ Mixer is delivered to a country other than the United States or Canada, it is warranted by Univex's authorized distributor. Contact your distributor directly to report any warranty claims outside of the United States or Canada.

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## **CHOOSING THE RIGHT LOCATION FOR YOUR NEW MIXER.**

When selecting the best location for the mixer, it is helpful to consider the following:

- Where is the best location for the operator, both for saving steps and easy viewing?
- Is this a good location for product flow as in:
  - Easy to get ingredients to the mixer?
  - Destination of the mix after mixing?
  - Is there existing electrical service at this location?
  - Does this location provide easy access for cleaning and service?
  - Check to be sure that your mixer with attachments does not extend out into heavy traffic areas.
  - If stands and/or portable equipment are used along side of your mixer, can they be moved easily to and from your mixer?
- If unit is not provided with a plug, then the unit is to be fitted with a primary disconnect device that has a contact separation of at least 3mm in all poles.

## **IMPORTANT ELECTRICAL SERVICE INFORMATION**

Electrical wiring instructions are found in the wiring diagram (Figures 12A thru 12C). Before making electrical connections, CHECK the specifications on the nameplate to make sure that they agree with those on your electric service.

## **USER-FRIENDLY SWING RING™ SAFETY GUARD**

Your SRM60+/SRM80+ Mixer features a newly updated, 2-part safety guard. The Swing Ring™ Safety Guard ring is easily be removed and installed, as well as dishwasher safe. It conveniently swings out of the way without having to be removed to place or sample ingredients in the bowl. Only one side of the guard needs to be open when adding ingredients. You'll find this two-piece design is easy to handle and fits conveniently in your sink or dishwasher. It also provides a clear view of the product throughout the mixing cycle.

**This mixer will not operate unless the Swing Ring™ Safety Guard is properly engaged.** Metal tabs at the rear of the guard activate twin switches that enable the mixer to run only when the guard is securely closed. These switches protect against accidental operation of the mixer when the safety guard is open or removed from the mixer. The mixer will automatically stop if the guard is open. Additional switches in the bowl slide mechanism automatically stop the mixer if the bowl is lowered from the "up" (mixing) position.

**To install the Swing Ring™ Safety Guard**, insert the pointed end of the rod at the rear of the guard into the lower mounting bracket on the mixer housing. Then insert the top end of the rod into the upper bracket by aligning the groove in the rod with the slot in the bracket. Press the rod in and allow it to drop

down into position. Repeat this for each of the two sections of the guard. Swing the two halves of the guard forward. When the guard is properly closed, the switches are now activated and the mixer can be operated.

To **remove** the guard, simply reverse the installation procedure. Grip the two halves of the guard and pull it open. Use an upward motion to release each half of the guard from the bracket on the machine body.

To **open** the guard for access to the bowl, **first turn the mixer off** by pushing the red stop button (Fig. 1 [12]). Pull open the two halves of the guard and swing one or both outward. It is not necessary to remove them. Close the guard to resume mixing operations.

### **OPERATING THE SRM30+ MIXER**

Your Univex Mixer is designed to meet the cook's and Baker's demand for an efficient, dependable appliance. It should give unfailing performance over a period of years when operated and maintained according to the instructions contained herein.

The mixer drives various agitator attachments through a beater head shaft to beat, mix, or whip liquid, viscous, or dry ingredients. The shaft is driven by a sturdy motor whose power is transmitted by a rugged, cogged belt and a Continuously Variable Transmission (CVT) through a gear train and a planetary gear set. The speed of the beater shaft can be varied from approximately 60 to 270 revolution per minute (rpm) for SRM80+ and 75 to 340rpm for SRM60+. (See page 10 & 11 for part numbers of various agitators, attachments and accessories.)

The SRM60+/SRM80+ Mixer is equipped with a power take-off (PTO) that operates other attachments such as slicers, graters and grinders. The PTO speed can be varied from 85 to 385 rpm for SRM80+ and SRM60+. **Be sure to read and follow any safety instructions provided by the manufacturers of attachments that you operate on the PTO.** The PTO hub should be covered with the PTO cap provided with your mixer when in use.

**Warning---Never put hands, spoons, utensils or other objects into the bowl while the mixer is operating!**

Note: Noise emissions are below 70db (A).

### **Securing the Bowl & Installing the Mixer Agitator.**

Place the bowl on the bowl support (Fig. 1 [15]). The indentation on the rim of the bowl must align with the corresponding pin on the mixer housing. Align the holes on either side of the bowl rim over the pins on the bowl support and lower the bowl into position. Secure the bowl by turning the bowl clamps (Fig. 1 [16]).

With the bowl in the "down" position, install the desired agitator by sliding it upward onto the beater shaft (Fig. 1 [1]). Rotate the agitator counter-clockwise until it is engaged.

**Safety Note** Serious injury may result if the bowl is not fully secured to the bowl support using the bowl support pins and firmly closing the clamps.

With the bowl secured, add ingredients. Liquids should be added first. The bowl is now ready to be raised to the "up" (mixing) position by turning the bowl lift handle (Fig. 1 [13]) clockwise.

When using the wire whip agitator, raise the bowl to the "up" position first and then add ingredients to avoid wire whip damage.

Secure and close the Swing Ring™ Safety Guard before proceeding.

### Using the Bowl Lift

The mixer will not operate unless the bowl is in the “up” position. Raise the bowl by turning the bowl lift handle (Fig. 1 [13]) clockwise. To lower the bowl, turn the handle counter-clockwise. If your mixer is equipped with the power bowl lift option (instead of the handle) turn the power bowl lift switch clockwise to raise the bowl, counter-clockwise to lower the bowl. It is necessary to lower the bowl to change the agitator. This also makes the bowl accessible for filling

### Setting the Timer - Start/Stop Controls

This mixer will not operate unless the timer has been set to a specified number of minutes or set in the “HOLD” position. To start the mixer, first turn the timer dial (Fig. 1 [8]) to the desired mixing time. Then push the start button (Fig. 1 [11]). The mixer will automatically stop when the timer reaches “0”. To stop mixing before the timer reaches “0”, push the red stop button (Fig. 1 [12]).

The timer may be set for up to 15 minutes of mixing, or may be set to the “HOLD” position for continuous operation. When setting a time of less than 5 minutes, turn the dial beyond 5 minutes and then return it to the desired time.

**Safety Note** The mixer will start only when the Swing Ring™ Safety Guard is engaged and the bowl is in the raised position. Do not operate the mixer without the bowl in place.

### Manual Stop Button

For safety and operational ease, this mixer is equipped with a stop button (Fig. 1 [12]) that has an oversized, red mushroom-style cap.

**Safety Note** Although the motor shuts off instantly when the Swing Ring™ Safety Guard is opened, or the bowl is lowered, or the stop button is pushed, the agitator may not come to complete rest for several revolutions. **Do not put hands or utensils into bowl or near the beater shaft until it is stopped.**

Both the start button and stop button are momentary contact type. They provide low voltage protection and prevent accidental start-up in the event of power interruption.

### Vari-Speed Control

A major advantage of Univex mixers is their Continuously Variable Transmission (CVT). Unlike other mixers, CVT lets you **change speed while the mixer is running**. Change speed by moving the speed control lever (Fig. 1 [9]) to the desired level. The speed indicator (Fig. 1 [10]) shows four speeds. Numerous intermediate speeds give the Cook or Baker tremendous flexibility.

Use speed 1 (slow) for heavy mixtures like pizza, bread or roll dough. Speed 1 should also be used with the Meat and Food Chopper attachment. For most mixing tasks, start on speed 1 and progress to higher speeds as needed. Use high speeds for whipping cream, beating eggs, and thin batter. **To avoid damaging your mixer, follow the speed, volume limits and attachments recommendations shown in the Table of Mixing Capacities on page 8 & 9.**

If you notice any slippage during mixing, the mixer may be overloaded. Reduce the load, or reduce speed until mixing action is smooth. Refer to the Trouble- Shooting Guide on page 14 & 15.

If the mixer jams and the motor stalls, immediately press the stop button. Take necessary steps to reduce the load. **Never put hands in the bowl to clear a jam.**

**Note** Always return to speed 1 before shutting off the mixer. Do not move the speed control lever when the mixer is not running, because this will cause belt to become loose and the mixer will not operate properly.

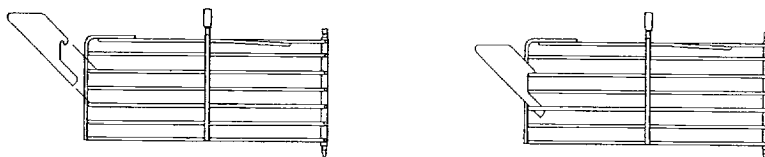
**If the mixer has been shut off by the timer, or stop button in speed 2, 3 or 4, follow these steps to avoid belt slippage or jerky start:** Empty the bowl. Set the timer to "HOLD". Press the start button. As the mixer begins to operate, move the speed control lever back to speed 1. Press the stop button. Return to "0". Your mixer is now ready for it's next task.

### Using the Ingredients Chute

The ingredients chute provided with your mixer enables you to add ingredients to the bowl while the mixer is running, and without opening or removing the Swing Ring™ Safety Guard. The chute may be installed on the front or side of either half of the guard. See below. Once the chute is properly installed, it can remain in place permanently, if desired.

### Ingredients Chute Installation

Slide the bottom of the chute between horizontal safety guard rings and engage the chute onto the safety guard.



### Bowl Dollies & Adapter

Dollies (Page 10 & 11 [h]), simplify moving large, heavy batches to the next location. To use 40 for 80 bowl or 30 for 60 bowl with the dolly, you must use a bowl adapter (Page 10 & 11 [i]). To remove heavy batches from the mixer, first place the dolly under the bowl. Then open the bowl clamps and lower the bowl to the dolly. Be sure the bowl support pins clear the bowl mounting brackets before moving the bowl and dolly.

### Using Smaller Bowl

For maximum flexibility, an alternative 30 for 60 quart bowl is available for use on your SRM60+ Mixer, and a 40 for 80 and 60 for 80 for use on your SRM80+ Mixer. Specially sized agitators must be used. See page 10 & 11 for part numbers.

### Splash/Extension Ring

A splash/extension ring (page 10 & 11 [j]) mounted to the bowl helps confine ingredients during the mixing of certain recipes. The ring should **never be used to overload** a mixer beyond its recommended capacity. Consult the Table of Mixing Capacities on page 8 & 9 when you are unsure of appropriate loads.

### USING THE POWER TAKE-OFF (PTO)

The power take-off hub (Fig. 1[5]) accommodates #12 tapered attachments such as a Vegetable Slicer and Shredder, or a Meat and Food Chopper. The mixer's speed control lever also controls the PTO drive speed.

Before installing attachments, turn the mixer off. Remove the PTO cap and loosen the thumb screw (Fig. 1 [6]) on the PTO hub. Insert the attachment with a slight twist until firmly in place. Tighten the thumb screw. **Be sure to read and follow any safety instructions provided for attachments that you operate on the PTO.**

### **Safety Notes**

**When grinding meat, chopper attachments must never run faster than speed 1. For vegetables, attachments may run at higher speed.**

**Always turn the mixer off to install or remove attachments.**

**Always return to speed 1 before shutting off mixer.**

**Cover the PTO hub with the PTO cap when not in use.**



**SRM60+ Table of Mixing Capacities & Recommended Agitators**

MODEL		SRM60+	
Bowl Capacity		72 qt	68.1 L
Attachment Hub Size		#12	
Motor		3 hp	
<b>Kitchen Capacities (single batches)</b>	<b>Agitator(s)</b>		
Mashed potatoes	Batter beater, 4-wing beater	40 lb	18.2 kg
Whipping cream	Wire whip, 4-wing beater	12 qt	11.4 L
Mayonnaise	Batter beater, wire whip, 4-wing beater	18 qt (oil)	17 L (oil)
Egg whites	Wire whip	2	1.9 L
Meringue	Wire whip	1 1/2 qt (water)	1.4 L (water)
Waffle or pancake batter	Batter beater	24 qt	22.7 L
<b>Bakery Capacities (single batches)</b>	<b>Agitator(s)</b>		
Pie dough	Pastry knife	50 lb	22.7 kg
Cake	Batter beater, 4-wing beater	50 lb	22.7 kg
Short sponge cake	Wire whip, 4-wing beater	45 lb	20.5 kg
Sponge cake batter	Wire whip, 4-wing beater	36 lb	16.4 kg
Angle food batter (8-10 oz cake)	Wire whip, 4-wing beater	45 cakes	45 cakes
Marshmallow icing	4-wing beater	5 lb	2.3 kg
Fondant icing	Batter beater	36 lb	16.4 kg
Shortening & sugar creamed	Batter beater	48 lb	21.8 kg
Egg & sugar for sponge cake	Batter beater, 4-wing beater	24 lb	10.9 kg
Use only speed 1 for:			
Pizza dough			
thin, 40% AR	Dough hook	40 lb	18.2 kg
medium, 50% AR	Dough hook	75 lb	34.1 kg
thick, 60% AR	Dough hook	80 lb	36.4 kg
Use speed 1 or 2 for:			
Bread/roll dough			
Heavy, 55% AR	Dough hook	80 lb	36.4 kg
Light to med. 60% AR	Dough hook	80 lb	36.4 kg
Raised doughnut dough			
65% AR	Dough hook	50 lb	22.8 kg

**NOTES:** Recommended speeds are for the capacities listed. For larger capacities, reduce speed. Dough capacity, whether for bread, rolls, pizza, bagels or doughnuts, is based on 12% flour moisture and 70°F (21°C) water temperature. Reduce capacity if cold water is used. If higher gluten flour is used, reduce total capacity by 10%.

AR% (Absorption Ratio) = the weight of the water divided by the weight of the flour.

The lower the AR% the stiffer and more difficult the dough is to mix.

AR% below 40% will reduce total capacity.

1 gallon of water = 8.3 lb. (1 liter of water = 2.2lb)

**SRM80+ Table of Mixing Capacities & Recommended Agitators**

MODEL		SRM80+	
		90 qt #12 1 hp	85.2 L
<b>Kitchen Capacities (single batches)</b>	<b>Agitator(s)</b>		
Mashed potatoes	Batter beater, 4-wing beater	50 lb	22.7 kg
Whipping cream	Wire whip, 4-wing beater	16 qt	15.1 L
Mayonnaise	Batter beater, wire whip, 4-wing beater	22 qt (oil)	20.8 L (oil)
Egg whites	Wire whip	3 qt	2.8 L
Meringue	Wire whip	2 qt (water)	1.9 L (water)
Waffle or pancake batter	Batter beater	30 qt	28.4 L
<b>Bakery Capacities (single batches)</b>	<b>Agitator(s)</b>		
Pie dough	Pastry knife	60 lb	27.3 kg
Cake	Batter beater, 4-wing beater	60 lb	27.3 kg
Short sponge cake	Wire whip, 4-wing beater	70 lb	31.8 kg
Sponge cake batter	Wire whip, 4-wing beater	54 lb	24.5 kg
Angle food batter (8-10 oz cake)	Wire whip, 4-wing beater	60 cakes	60cakes
Marshmallow icing	4-wing beater	6 1/2 lb	3.0 kg
Fondant icing	Batter beater	45 lb	20.4 kg
Shortening & sugar creamed	Batter beater	55 lb	25.0 kg
Egg & sugar for sponge cake	Batter beater, 4-wing beater	36 lb	16.4 kg
Use only speed 1 for:			
Pizza dough			
thin, 40% AR	Dough hook	40 lb	18.2 kg
medium, 50% AR	Dough hook	75 lb	34.1 kg
thick, 60% AR	Dough hook	80 lb	36.4 kg
Use speed 1 or 2 for:			
Raised doughnut dough			
65% AR	Dough hook	60 lb	27.3 kg
Bread/roll dough			
heavy, 55% AR	Dough hook	80 lb	36.4 kg
light to med., 60% AR	Dough hook	80 lb	36.4 kg

**NOTES:** Recommended speeds are for the capacities listed. For larger capacities, reduce speed. Dough capacity, whether for bread, rolls, pizza, bagels or doughnuts, is based on 12% flour moisture and 70°F (21°C) water temperature. Reduce capacity if cold water is used. If higher gluten flour is used, reduce total capacity by 10%.

AR% (Absorption Ratio) = the weight of the water divided by the weight of the flour.

The lower the AR% the stiffer and more difficult the dough is to mix.

AR% below 40% will reduce total capacity.

1 gallon of water = 8.3 lb. (1 liter of water = 2.2lb)

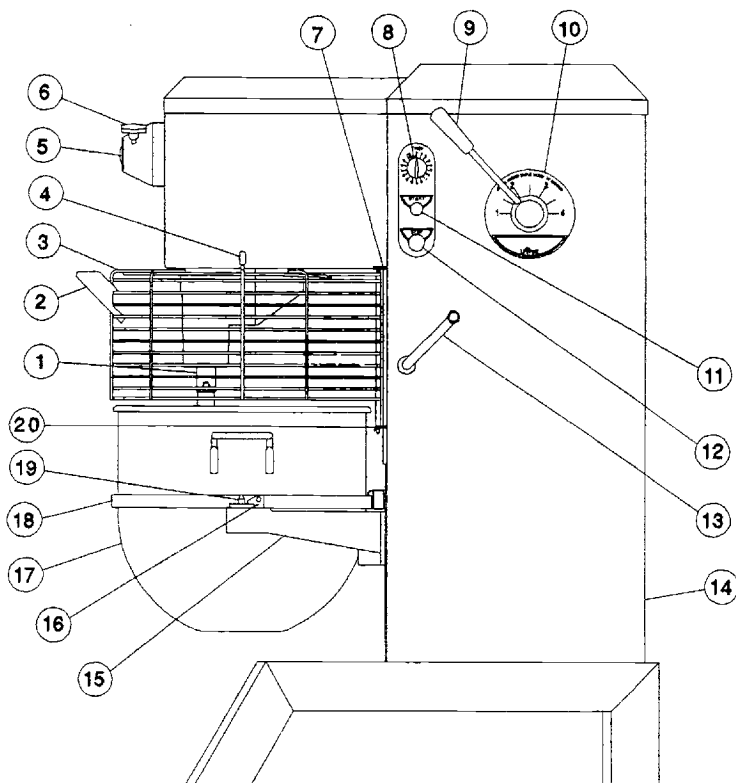
**Beaters, Agitators, Bowls, & Accessories****Available for the SRM60+ Mixer**

Part numbers (size in quarts)

<p>A. Batter Beater 1061083 (60)</p> <p>Optional 1061096 (30 for 60)</p>	<p>G. Bowl 1061192 (60)</p> <p>Optional 1061105 (30 for 60)</p>
<p>B. Wire Whip 1061095 (60)</p> <p>Optional 1061182 (30 for 60)</p>	<p>H. Bowl Dolly</p> <p>Optional 1061971 (60) 1030971 (30 for 60)</p>
<p>C. Dough Hook 1061098 (60)</p> <p>Optional 1061090 (30 for 60)</p>	<p>I. 30 for 60 Bowl Dolly Adapter</p> <p>Optional 1030972</p>
<p>D. Pastry Knife</p> <p>Optional 1061087 (60) 1061088 (30 for 60)</p>	<p>J. Splash/Extension Ring</p> <p>Optional 1061298 (60) 1061299 (30 for 60)</p>
<p>E. Four Wing Beater</p> <p>Optional 1061197 (60) 1061301 (30 for 60)</p>	<p>K. Vegetable Slicer/Grater</p> <p>Optional VS9 1000950 Slicer VS9H 1001050 Grater</p>
<p>F. Sweet Dough Beater</p> <p>Optional 1061229 (60) 1061313 (30 for 60)</p>	<p>L. Meat &amp; food Chopper</p> <p>Optional ALMFC12 1000550</p>

**Beaters, Agitators, Bowls, & Accessories****Available for the SRM80+ Mixer****Part numbers (size in quarts)**

<b>A. Batter Beater</b> 1080020 (80)  Optional 1061096 (40 for 80) 1061083 (60 for 80)	<b>G. Bowl</b> 1080013 (80)  Optional 1080038 (40 for 80) 1080047 (60 for 80)
<b>B. Wire Whip</b> 1080033 (80)  Optional 1061182 (40 for 80) 1061095 (60 for 80)	<b>H. Bowl Dolly</b>  Optional 1080971 (80) 1030971 (40 for 80) 1061971 (60 for 80)
<b>C. Dough Hook</b> 1080034 (80)  Optional 1061090 (40 for 80) 1061089 (60 for 80)	<b>I. 40 for 80 Bowl Dolly Adapter</b>  Optional 10320972
<b>D. Pastry Knife</b>  Optional 1080032 (80) 1061088 (40 for 80) 1061087 (60 for 80)	<b>J. Splash/Extension Ring</b>  Optional 1080049 (80) 1061299 (40 for 80) 1061298 (60 for 80)
<b>E. Four Wing Beater</b>  Optional 1080036 (80) 1061301 (40 for 80) 1061197 (60 for 80)	<b>K. Vegetable Slicer/Grater</b>  Optional VS9 Slicer 1000950 VS9H Grater 1001050
<b>F. Sweet Dough Beater</b>  Optional 1080031 (80) 1061313 (40 for 80) 1061229 (60 for 80)	<b>L. Meat &amp; Food Chopper</b>  Optional ALMFC12 1000550

**OVERALL VIEW OF FOOD MIXER****Figure 1**

- |   |                            |
|---|----------------------------|
| 1. BEATER SHAFT   | 11. START BUTTON           |
| 2. CHUTE 1000541  | 12. STOP BUTTON            |
| 3. SAFETY RING ASSEMBLY<br>SRM60+ 1064550 Right, 1064551 Left<br>SRM80+ 1080051 Right, 1080052 Left | 13. BOWL LIFT HANDLE       |
| 4. MAGNET   | 14. REAR ACCESS PANEL      |
| 5. NO. 12 HUB   | 15. BOWL SUPPORT           |
| 6. THUMB SCREW  | 16. BOWL CLAMP             |
| 7. UPPER MOUNTING BRACKET   | 17. BOWL                   |
| 8. TIMER  | 18. BOWL RIM               |
| 9. SPEED CONTROL LEVER  | 19. BOWL SUPPORT PIN       |
| 10. SPEED INDICATOR LABEL   | 20. LOWER MOUNTING BRACKET |

## CLEANING YOUR MIXER

Consistent use of the following procedures will ensure that your mixer is in optimum condition.

- **Warning -- Disconnect electric power supply before cleaning.**
- Wash the body of the mixer, the bowl support, and beater shaft with warm water and mild soap.
- Avoid excess water in the area of the safety switch that protrude from the housing where the Swing Ring™ Safety Guard is mounted.
- Do not rinse with a hose.
- Do not use abrasive pads.
- Dry the mixer thoroughly using a soft cloth.
- Wash the bowl and beater immediately after use. If egg mixtures or flour batter have been used, rinse the bowl and beater with cold water before washing with hot water. Wash the Swing Ring™ Safety Guard in the same manner, or in your dishwasher.
- Dry bowls, agitators and safety guard thoroughly.

## OPERATOR'S PREVENTIVE MAINTENANCE

For best long-term performance, operators should follow these simple practices.

- Lightly lubricate the beater shaft (Fig. 1 [1]) after washing. Petro-Gel or equivalent food grade lubricant should be used.
- Do not cover the unit with a plastic bag, as this traps humidity in your mixer.
- If the electrical supply cord is damaged, it must be replaced by a special cord or assembly available from Univex directly or from a Univex service agent.
- Do not overload the mixer. **Overloading is the #1 cause of mixer failure.** Follow the Table of Mixing Capacities on page 8 & 9. It may be helpful to post a copy of this table adjacent to the mixer.
- Keep the mixer properly lubricated. **Lack of lubrication is #2 cause of mixer failure.** Key mixer components require lubrication after each 500 hours of operation. (Instructions on frequency and method of lubricating are on page 18).
- Only change speed with the mixer running. **Changing speed with mixer off will cause belts to loosen,** and the mixer will not turn (see Trouble-Shooting Guide on page 14 & 15). Return to speed 1 before shutting the mixer off. Use the procedure described on page 6 to return the mixer to speed 1 if mixer is shut off in a higher speed.

## SRM60+/SRM80+ TROUBLESHOOTING GUIDE

TROUBLE	POSSIBLE CAUSE	REMEDY
1. Mixer will not operate.	1.1 Timer not turned on.	1.1 Turn timer on.
	1.2 Burned switch contacts	1.2 Clean or replace contacts. *
	1.3 Electrical service down.	1.3 Check electrical service. Replace fuse or reset circuit breaker if necessary.
	1.4 Motor capacitor defective. (1 PH Only)	1.4 Replace. *
	1.5 Burned out motor.	1.5 Remove, test, repair or replace. *
	1.6 Magnetic starter tripped due to overload	1.6 Wait several minutes and push start button
	1.7 SAFETY RING not mounted and closed.	1.7 Install SAFETY RING.
	1.8 Bowl not raised.	1.8 Raise bowl completely.
2. Mixer runs but agitator will not turn.	2.1 Drive belt off pulley	2.1 Reinstall drive belt on motor pulley and adjust mount center distance. *
	2.2 Key or Pin sheared on input shaft, input gear, bevel pinion, bevel gear, vertical shaft or beater shaft.	2.2 Locate by step inspection and replace defective part. *
	2.3 Shifting speed with mixer not running.	2.3 With mixer running, slowly move speed control lever slowly fully forward then backward to re-engage belt
3. Agitator stalls during mixing	3.1 Mixer bowl is overloaded	3.1 Adjust contents of bowl per Mixing Capacities Table
	3.2 Speed is set too high for the mix	3.2 Shift speed lower till action rotates smoothly
	3.3 Loose belt	3.3 Readjust pulley center distance to tighten belt. *
	3.4 Contamination of belt with grease	3.4 Clean pulleys and replace belt *
4. Speeds do not change properly	4.1 Loose belt.	4.1 Tighten or replace belt. *
	4.2 Vari-Speed pulley inoperative	4.2 Remove, clean & lubricate, or replace. *

5. Mixer runs, but repeatedly cuts out and stops	5.1 Bowl overloaded	5.1 Adjust contents of bowl per Mixing Capacities Table
	5.2 Speed is set too high for the mix	5.2 Reduce speed
	5.3 Service voltage too low or fluctuating	5.3 Check electrical voltage. *
	5.4 Starter improperly set	5.4 Adjust amp setting on starter. *
6. Attachments contact bottom of bowl.	6.1 Dented bowl.	6.1 Remove dent or replace bowl.
	6.2 Bowl height is set too high	6.2 Reset bowl height. *
7. Attachments contact side of bowl	7.1 Dented bowl	7.1 Remove dents or replace bowl
	7.2 Insufficient clearance between bottom of bowl and beater.	7.2 Adjust bowl height. *
8. Excessive noise.	8.1 Gears need to be repacked with grease, or oil level is low.	8.1 Locate source by inspection and repack with grease, or top off oil level. *
	8.2 Badly worn or frayed drive belt.	8.2 Replace belt. *
	8.3 Attachments hitting bowl	8.3 Inspect for cause in items 6 and 7 above.
	8.4 Overloaded mixing bowl	8.4 Adjust contents of bowl per Mixing Capacities Table

\* Remedies designated with a \* require the services of an authorized service agent.



**REMOVAL OF TOP COVER AND REAR ACCESS PANEL**

- a. The top cover (Fig. 10 [17]) must be removed in order to perform the maintenance operations. It is secured by a spring clip at its front end and a screw at its rearward end. First, **DISCONNECT THE ELECTRICAL POWER FOR SAFETY**. Then, remove the screw in the rear (Fig. 10 [20]), lift rear of cover, push forward about 3 inches and lift cover off. Reinstall in reverse procedure using care to insure that the cover sits squarely and uniformly on the mixer housing.
- b. Remove rear access panel (Fig. 10 [22]) by removing eight screws and washers (Fig. 10 [23, 24]).

**MECHANICS MAINTENANCE**

A mechanic should perform the following inspection and maintenance as required depending on severity of use, but at least yearly.

**1. CVT BELT DRIVE**

- a. Start mixer and shift speed control (Fig. 1 [9]) to the slowest speed (Low, 1). Stop mixer.

**WARNING:** FOR SAFETY, DISCONNECT ELECTRICAL POWER. Place tag or sign on electrical supply warning that **MIXER IS BEING WORKED ON; DO NOT TURN ON.**

- b. Remove rear access panel (Fig. 10 [22]) and top cover (Fig. 10 [17]) as described above.
- c. Inspect drive belt (Fig. 11 [2]) for proper adjustment. Outer surface of belt should be approximately flush to 1/16" below the outer edges of the input pulley flanges (Fig. 11 [5]) when mixer has been shut off in first speed (see Pg. 17). If drive belt is excessively frayed or has a heavily glazed surface, replace it. However, it is generally the best judgment to leave a drive belt in a machine if it is performing well, even if it shows moderate wear. Inspect gripping surfaces of drive belt for excessively glazed surfaces or contamination by grease or oil.

To replace belt, run mixer in 1st speed. Disconnect electrical supply. Shift machine to 4th speed. Unwrap belt from top pulley. Slide belt between top pulley nose and cam (Fig. 8 [8]). Remove belt from lower pulley.

**WARNING:** Lower pulley flanges are spring loaded. Keep fingers away while removing belt.

**The bowl must be lowered in order for the belt to clear the nose of the lower pulley when removing belt.** To install new belt wrap belt around lower pulley. Pull belt into the spring loaded flanges. A pry bar will help separate the flanges. Continue replacement in reverse order from belt removal. Adjustment of the belt drive will most likely be required.

- d. Readjustment of the drive belt, where a slight stretching or normal seating has caused outer surface of the belt to exceed the acceptable limit of flush to 1/16" below the input pulley flanges (see Pg. 17) is as follows: Loosen Kep nuts (Fig. 8 [12]) securing the bracket (Fig. 8 [15]) and holder (Fig. 8 [1]) to the housing. If the belt was riding outside the pulley flanges, tap the speed control assembly lightly towards the rear of the mixer. If the belt was riding more than 1/16" below the pulley flanges, tap the

Speed control assembly towards the front of the machine (shifting to 2nd speed will help).

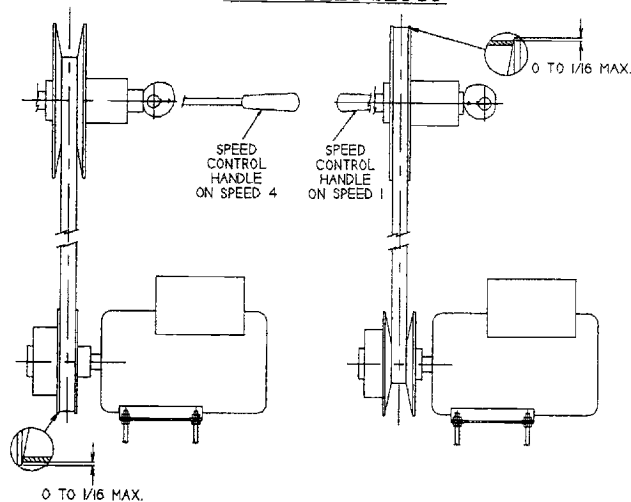
**Note:** The assembly must remain perpendicular to the mixer housing walls. Failure to do so will result in the binding of the shaft (Fig. 8 [10]) in the bearing (Fig. 8 [21]). Retighten the Kep nuts and run mixer in 1st speed and check belt position. Repeat procedure if necessary.

- e. Once the upper pulley (Fig. 11 [5]) has been adjusted, the lower pulley must be checked. Start mixer and shift to 4th speed. Turn mixer off and check position of belt. The belt should be flush to 1/16" below outer edges of the pulley flanges. If adjustment is needed, loosen Kep nuts (Fig. 11 [14]) and raise or lower the motor using the Kep nuts on the under side of motor. Retighten top Kep nuts and run mixer in 4th speed to check new belt position.

**Note:** The motor must remain level with the mixer base (Fig. 10 [1]). If not, poor shifting and belt life will result.

**WARNING:** FOR SAFETY, DISCONNECT ELECTRICAL POWER.

#### **DRIVE BELT SETUP**



#### 2. **MOTOR**

Check motor (Fig. 11 [16]) for overheating and excessive noise. If defective, send to a local electrical repair shop.

#### 3. **BOWL LIFT ADJUSTMENT**

**WARNING:** FOR SAFETY, DISCONNECT ELECTRICAL POWER.

- a. Check adjustment by placing the bowl on the lowered bowl support, and place a batter beater on the beater shaft (Fig. 1 [1]).
- b. Raise bowl support to the upper position.
- c. Check clearance between bottom of the bowl and the adjacent underside of the batter beater. Clearance should be  $3/16" \pm 1/16"$ .

- d. If adjustment is required, loose jam nut (Fig. 7 [26]) and turn threaded bowl stop rod (Fig. 7 [25]) until the desired clearance is obtained, then tighten the jam nut.

4. **DRIVE BELT REPLACEMENT** (See CVT Belt Drive)

5. **LUBRICATION**

**WARNING:** FOR SAFETY, DISCONNECT ELECTRICAL POWER TO THE MIXER.

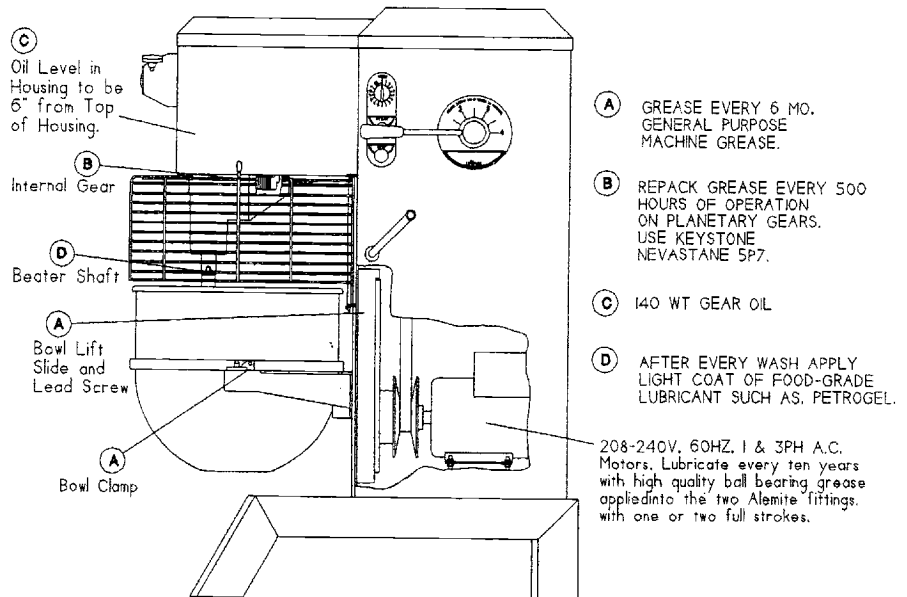
- a. The lubrication instructions are listed in Figure 2.
- b. Remove access panel (Fig. 10 [22]), top cover (Fig. 10 [17]) per page 4.
- c. In order to service the gearbox, it will be necessary to further remove the gearbox cover (Fig. 3 [2]). A thin blade putty knife will prove helpful in separating the silicone sealant between this cover and the gearbox. Do not bend cover. Thoroughly remove all dried sealant before applying new sealant when reinstalling the cover. Do not allow dried sealant to enter gearbox. Silicone rubber sealant such as Dow Corning Silastic 732RTV or Permatex Form-A-Gasket are recommended.

**WARNING:** NEVER WORK ON THE GEARBOX WITH THE MIXER RUNNING.

- d. Use care to avoid getting lubricant of any kind on the drive belt and pulleys as this would seriously deteriorate the belt grip and mixer performance.

**LUBRICATION INSTRUCTIONS**

**FIGURE 2**



**REPAIR INSTRUCTIONS**

(Including Disassembly, Replacement and Reassembly)

**A. GEARBOX** (Fig. 3)**GEARBOX REMOVAL:**

1. Run mixer and shift to first speed then turn off.
2. **WARNING:** FOR SAFETY, DISCONNECT ELECTRICAL SUPPLY.
3. Remove set screw (Fig. 3 [16]) and drain oil.
4. Remove rear access panel (Fig. 10 [22]), top cover (Fig. 10 [17]), instruction on page 4.
5. Remove drive belt per instructions (1) in Mechanic's Maintenance.
6. Remove speed control assembly (Fig. 8)  
See Speed Control Disassembly.
7. Loosen two allen set screws (Fig. 11 [4]) that secure input pulley (Fig. 11 [5]) and remove pulley completely from input shaft (Fig. 6 [10]).
8. Remove gearbox cover (Fig. 3 [2]). Remove remaining oil from gearbox.
9. **WARNING - FOR SAFETY!** The gearbox is very heavy, weighing approximately 261 pounds and must, therefore, be supported safely before starting step number (10). It is recommended that a portable hydraulic crane of sufficient capacity be used. A chain may be attached to the P.T.O. shaft (Fig. 5 [11]) at mid-length. Use care not to rub or scrape the gears.
10. Remove four cap screws (Fig. 3 [11]) securing gearbox housing to mixer housing. Remove gear box assembly and place on work bench.
11. Rotate gear train by hand and inspect for worn or chipped gears, bent shaft, worn bearings and excessive backlash. Backlash measured at gear teeth exceeding 1/32" is considered excessive. After trouble has been isolated, proceed to disassemble.

**GEARBOX DISASSEMBLY:**

1. **Beater Head** (Fig. 4)
  - a. Remove cap screw (Fig. 4 [21]) and remove beater head assy. If beater head does not drop easily, use the two jacking screws (Fig. 4 [19]) to assist in removal. Do not pry against outer rim of beater head housing (may cause breakage).
  - b. Remove top retaining ring [9], gear [11], bottom retaining ring [9], key [7], seal [10], retaining ring [9], retaining ring [8], and press shaft [2] (at gear end) from housing [1].
  - c. Press bearings [4 & 6] along with spacer [5] from housing [1].

2. **Power Take Off** (Fig. 5)

- a. Remove three cap screws (Fig. 5 [5]) and washers [6] holding P.T.O. housing [3] to gearbox housing (Fig. 3 [1]).
- b. Remove retaining ring [8] from helical gear end of PTO shaft [11]. Remove gear [13] and key [14].
- c. Using two cap screws as jacking screws (Fig. 5 [5]) in the tapped holes of gearbox housing (Fig. 3 [1]), dislodge and remove the P.T.O. assembly from the gearbox housing.
- d. Remove and slide bevel gear [12] away from P.T.O. housing [3] and remove key [15].
- e. Remove internal retaining ring [9], P.T.O. adapter [2] and press shaft, bearing, and gear assembly from P.T.O. housing [3].
- f. Remove four retaining rings [8] from P.T.O. shaft [11], and press ball bearings [10] and P.T.O. bevel gear [12] off P.T.O. shaft [11].
- g. Remove P.T.O. oil seal [7] from P.T.O. housing [3] and discard.

3. **Input** (Fig. 6)

- a. Remove four cap screws (Fig. 6 [8]) from flange of input housing [6].
- b. Thread two of the cap screws [8] into the two threaded jacking holes in the flange [6]. Turn these two screws in evenly until the input housing is pushed free of the gear box housing.
- c. Remove retaining ring [2] at gear end of the shaft, and press off bearing [4].
- d. Remove retaining ring [3] and proceed to remove input shaft [10] with bearing [4], out of input housing [6] by pressing from the gear end of the shaft.
- e. Remove rubber seal [4] from housing. Seal must be replaced.
- f. Remove remaining retaining ring [3] from housing.

4. **Vertical Shaft** (Fig. 4)

- a. Remove beater head as covered in Gearbox Disassembly (1) a-c.
- b. Remove P.T.O. assembly as covered in Gearbox Disassembly (2) a-g.
- c. Remove key (Fig. 4 [18]) and retaining ring [9] from vertical shaft [13].
- d. Drive vertical shaft downward into the gearbox. A brass drift will be necessary to drive shaft completely free from the gear box. Lift bevel gear [12] and key [14] from gear box.

- e. Insert drift through top of bearing [15] in gearbox and drive seal [16] out bottom of bore.
- f. Reach up into bore from bottom opening with snap ring pliers and remove retaining ring [8] from bore.
- g. Carefully drive upper bearing [15] out bottom of bore.
- h. Press bearing [17] from shaft [13].

### **GEARBOX ASSEMBLY**

1. Clean all components (except bearings) with safety approved cleaning solvent. Inspect components for defects and replace those found to be defective.  
  
**NOTE:** If planetary pinion gear (Fig. 4 [11]) requires replacement, it is likely that the planetary gear (Fig. 3 [20]) requires replacement also.
2. If shafts have become slightly scored during the disassembly process, it is necessary to polish the shafts with fine machinist's crocus cloth. An especially smooth finish is necessary in the working seal area of the shafts. Use care to avoid excessive removal of shaft surface or proper fit of components will be lost.
3. Always fit new rubber seals when rebuilding the gearbox. Use special attention in examining the end of the shafts over which the seals will be pushed. The slightest burring or scoring will abrade or cut the delicate seal lips. A light polish of the shaft ends with crocus cloth is recommended.
4. Reassembly should be carried out in reverse of the disassembly procedure stated above. Successful reassembly is very dependent on the cleanliness of all surfaces, particularly the bores of housings, gears, and bearings, as well as the outer surface of shafts. It is good to recheck each component for cleanliness as it is picked up for reassembly.
5. Transmission should be progressively checked for smooth operation while on the workbench by hand turning each assembly as it is installed.
6. Lubrication of the gear box should be done following its installation on the mixer. The helical and bevel housing compartments are filled to a level 6" (10 qt. SRM60+) (16 qt. SRM80+) from the top edge of the gear box with SAE 140 gear oil.

### **B. BOWL LIFT & SLIDE** (Fig. 7)

#### **BOWL LIFT & SLIDE DISASSEMBLY & REMOVAL**

**CAUTION:** FOR SAFETY, DISCONNECT ELECTRICAL SUPPLY.

1. Remove top cover and rear access panel as detailed on page 4.
2. Remove drive belt from motor pulley as stated in Mechanic's Maintenance Section 1 (c).
3. Remove drive assembly (Fig. 11) from mixer housing as follows:

- a. Remove the top 4 Kep nuts (Fig. 11 [14]) that secure motor assembly to mixer base.
- b. Remove motor electrical leads (Fig. 11 [13]) from magnetic starter (Fig. 10 [26]). Remove motor ground lead from stud.
- c. Lift motor assembly from mixer housing.

**CAUTION:** Drive assembly can weight in excess of 100 lb. depending on type of motor. Use mechanical lift assistance.

4. Remove bowl from bowl support.
5. Remove two screws (Fig. 9 [12]).
6. Remove 4 screws (Fig. 7 [32]).

**CAUTION:** Someone should be holding bowl support (Fig. 9 [1]) while the screws are being removed, so that it does not fall and get damaged. Remove slide cover (Fig. 9 [10]).

7. Loosen set screws (Fig. 7 [2]) and Fig. 7 [8]).
8. Withdraw handle assy. (Fig. 7 [38]) from the outside of mixer housing. Collect gear [9], key [39], washers [4 & 42] and collar [3].
9. Remove 8 nuts (Fig. 7 [31]) and pull slide/frame assembly from studs and remove from mixer housing.

**CAUTION:** Assembly is heavy.

10. Remove 2 hex head cap screws (Fig. 7 [15]). This allows for removal of yoke (Fig. 7 [7]).
11. Drive roll pin (Fig. 7 [11]) from miter gear (Fig. 7 [12]). Remove miter gear and thrust washer (Fig. 7 [4]) from lead screw (Fig. 7 [10]).
12. Press lead screw (Fig. 7 [10]) through hole in frame [1].
13. Loosen set screws (2). Remove collar [3] and thrust washer (Fig. 7 [4]) by pulling them from lead screw.
14. Unscrew lead screw from floating nut (Fig. 7 [28]) and remove.
15. Remove 4 screws (Fig. 7 [27]) and remove gibbs (Fig. 7 [29]). The slide may now be removed from the frame.

**NOTE:** Save any shim strips that may have been used between the frame and the gibbs. It is recommended that the location be marked at this time with a pencil to facilitate reinstallation.

#### **BOWL LIFT & SLIDE, REASSEMBLY & INSTALLATION** (Fig. 7)

1. Grease sliding surfaces of slide & frame. See Lubrication page 18.
2. Keeping shims in place (if any), position slide in frame as shown in Fig. 7.

3. Secure slide (Fig. 7 [34]) in frame [1] by bolting gibbs [29] to frame with four hex head cap screws [15]. Check to insure that slide moves freely in frame. If not, remove gibbs and shim where needed.
4. Screw lead screw [10] into floating nut [28] and push slide to bottom of frame so that the lead screw does not protrude through hole in frame.
5. Place the collar [3] and then thrust washer [4] over top of lead screw [10]. Push slide and lead screw up so that the lead screw protrudes through hole in frame.
6. Place thrust washer [4] and then miter gear [12] on top of lead screw [10]. Drive roll pin [11] through miter gear [12] and into lead screw [10].
7. Push slide & lead screw down as far as possible. Slide collar [3] and thrust washer [4] up against frame and tighten set screws [2] in collar against corresponding flats on lead screw [10].
8. Check DU bearings in yoke for burrs (Fig. 7 [6]). Install yoke [7] to frame [1] (do not tighten bolts).
9. Lift assembly into mixer housing. Place assembly on 8 weld studs. Tighten assembly to mixer housing using washers and Kep nuts.
10. Insert bowl lift lever assembly (Fig. 7 [35-38,40,41]) through hole in mixer housing. Slide collar [3] and thrust washer [42] over end of lever. Insert lever through yoke while holding the thrust washer [4] and miter gear [9] in position. Continue to slide lever through until miter gear seats against shoulder on the lever shaft. Align key ways of miter gear and lever, insert key [39]. Tighten set screw [8]. Squeezing miter gear [9] and collar [42], tighten set screw [2].
11. With yoke bolts [15] lightly tightened, tap yoke back and forth until the miter gears mesh smoothly. Tighten bolts [15]. Adjust hub [40] so that it is positioned 1/32" from mixer housing. Tighten set screw [41].
12. Lubricate the miter gears and lead screw with general purpose machine grease.
13. Raise and lower bowl lift by turning the bowl lift lever [37]. The mechanism should turn freely.
14. Raise bowl all the way. Check clearance between bottom of bowl and batter beater attachment. The clearance should be  $3/16 \pm 1/16$ ". If the clearance is not sufficient, adjust bowl stop (Fig. 7 [25]). Loosen jam nut [26], raise or lower bowl stop as needed and tighten jam nut.
15. Make sure bowl lift safety switch (Fig. 7 [19]) is actuated by the retainer plate [24] when the bowl is raised completely. If the switch is not actuated, or the lever on the switch is being bent, adjust the bracket [17] by loosening screws [23] and raising or lowering until the switch actuates.

**Note:** The bowl should continue to raise 1/8" after switch actuates.



**SPEED CONTROL** (Fig. 8)

1. Run mixer and shift to first speed then turn mixer off.
2. Warning: For safety disconnect electrical supply.
3. Remove rear access panel (Fig. 10 [22]) and top cover (Fig. 10 [17]) instructions on page 4.
4. Remove drive belt per instructions 1 in mechanics maintenance.
5. Warning: Handle (Fig. 8 [25]) has spring loaded rotation. Hold handle to prevent injury.  
  
While holding handle (Fig. 8 [25]) remove set screws [20] and rotate handle counter clockwise two full turns. This disengages the spring [11].  
Note: The ball [3] and spring [4] may fall out of block [6].
6. Loosen set screws (Fig. 8 [5]), drive roll pin [22] from hub [23] and pull hub from shaft [10]. Unscrew hub [23] and handle [25] from lever [24].
7. Slide retaining rings [9], cam [8] and spring [11] towards locating block [6]. Remove key [19] from shaft, loosen nuts [12] securing detent housing [1].
8. Drive shaft [10] inward until it contacts the left side housing wall. Pull detent housing [1] and shaft assembly [10] towards rear of machine and remove assembly from mounted bearing [18].
9. Slide spring [11] retaining ring [9], cam [8] and belleville washer [2] from shaft [10]. Drive roll pin [7] from block [6]. Slide block [6] from shaft [10].
10. Remove nuts [12], washers [13 & 14] and bracket [15] from housing. Remove bolts [16 & 17] securing bearing [18] to bracket [15].

Reassemble in reverse order of above

Adjust assembly as described in Mechanics Maintenance 1 d, & e.

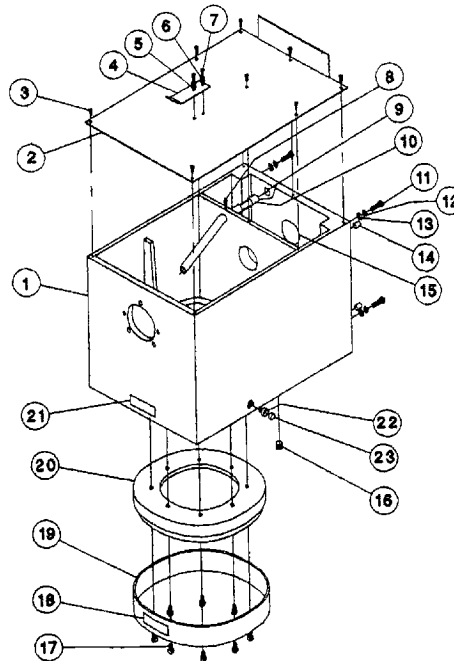
If speed handle creeps during operation tighten the two set screws (Fig. 8 [5]) which push against the belleville washer [2] until creeping stops.

**HOUSING** (Fig 10)

For the remaining parts which have not been discussed pertain to electrical components, and the housing, Figures 10, 12A, 12B, and 12C should provide adequate guidance for the disassembling and reassembling of these parts.

**GEAR BOX****FIGURE 3**

<b>ILLUS. NO.</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
1	1064530	HOUSING, TRANSMISSION-SRM60+	1
	1080054	HOUSING, TRANSMISSION-SRM80+	1
2	1064417	COVER, TRANSMISSION-SRM60+	1
	1080022	COVER, TRANSMISSION-SRM80+	1
3	1200008	SCREW, PHILLIPS PAN HEAD 8-32 X 3/8	8
4	1024041	SPRING CLIP	1
5	1200076	FLAT WASHER #10	2
6	4400065	LOCK WASHER #10	2
7	1200012	SCREW, PHILLIPS PAN HEAD 10-32 X 1/2	2
8	1200378	SCREW, CUP POINT SET 8-32 X 1/4	1
9	1064507	PLUG, OILING TUB	2
10	1064418	TUBING, TRANSMISSION	1
11	1200057	SCREW, HEX HEAD CAP 1/2-20 X 1	4
12	1200085	LOCK WASHER 1/2	4
13	1200084	FLAT WASHER 1/2	4
14	1200403	PIN, DOWEL 3/8 DIA. X 1/2	2
15	1061990	PLUG, OIL-SRM60+	1
	1080039	PLUG, OIL-SRM80+	1
16	1200329	DRAIN PLUG, 1/4NPT HEX HD SOCKET	1
17	1200365	SCREW, SOCKET HEAD CAP 1/4-20 X 1/2	8
18	4400269	LABEL, ROTATION	1
19	1061002	SPLASH RING	1
20	1061111	GEAR, INTERNAL	1
21	4400345	LABEL, UNIVEX-SRM60+	1
	4400327	LABEL, UNIVEX-SRM80+	1
22	1012438	HOLDER, MAGNET	2
23	1012439	MAGNET	2



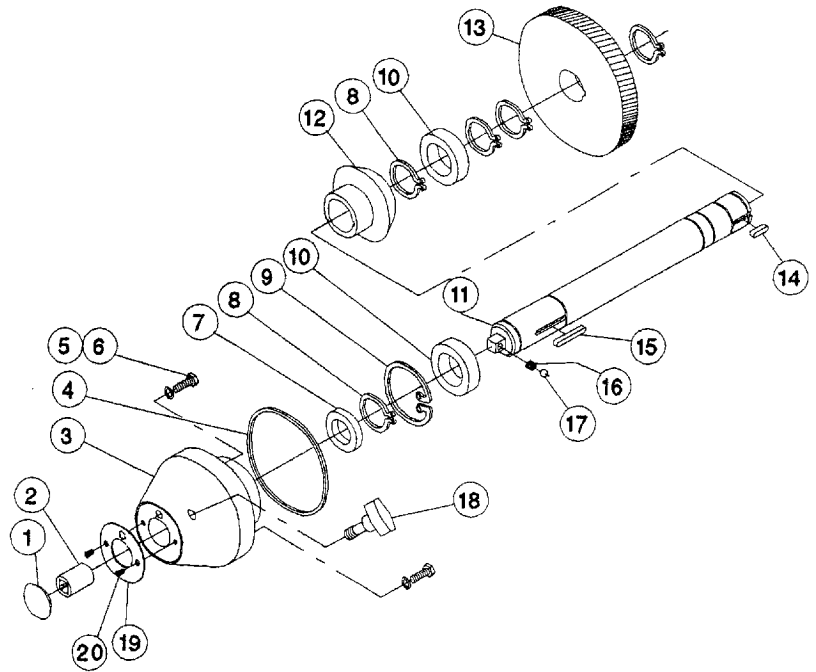
<u>ILLUS. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION.</u>	<u>QTY.</u>
1	1064423	HOUSING, BEATER HEAD	1
2	1064424	SHAFT, BEATER HEAD	1
3	1200310	PIN, DOWEL	1
4	1061959	BEARING, BALL	1
5	1064426	SPACER, BEATER HEAD	1
6	1061917	BEARING, BALL	1
7	4400231	KEY 1/4 SQ. X 1, CL 1, ROUNDED BOTH ENDS	1
8	1200354	RETAINING RING, INTERNAL	2
9	1200353	RETAINING RING, EXTERNAL	4
10	1064509	SEAL,	1
11	1061003	GEAR, PINION, BEATER HEAD	1
12	1064420	GEAR, BEVEL, VERTICAL SHAFT-SRM60+	1
	1080016	GEAR, BEVEL, VERTICAL SHAFT-SRM80+	1
13	1064422	SHAFT, VERTICAL-SRM60+	1
	1080014	SHAFT, VERTICAL-SRM80+	1
14	1200314	KEY, 3/8 SQ. X 1-1/2, CL 1, ONE END ROUNDED	1
15	1064513	BEARING, BALL, VERTICAL	1
16	1064512	SEAL,	1
17	1064500	BEARING, BALL, VERTICAL	1
18	1200315	KEY, 3/8 SQ. X 2, CLASS 1, ONE END ROUNDED	1
19	1200405	SCREW, SET 5/16-18 X 1-3/4	2
20	1064448	WASHER, 1/2	1
21	1200379	SCREW, HEX HEAD CAP, 1/2-20, SS, L.H.	1



**P.T.O. ASSEMBLY**  
**FIGURE 5**

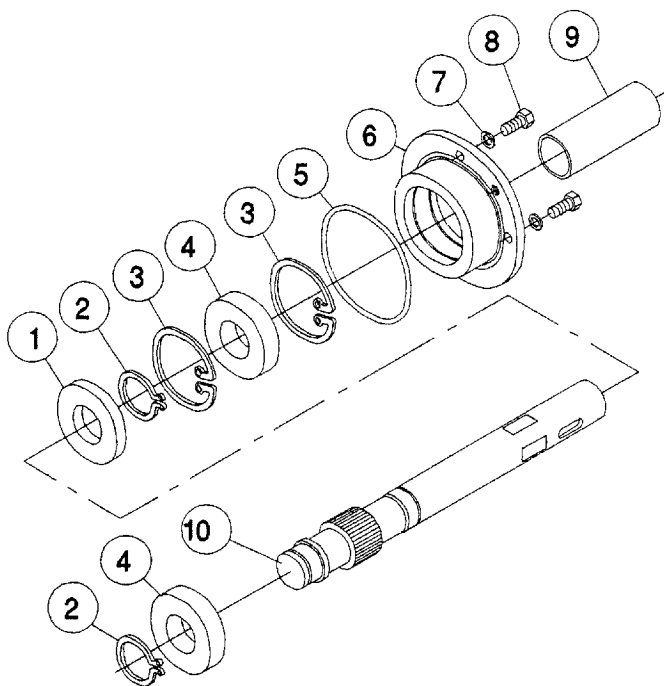
<b><u>ILLUS. NO.</u></b>	<b><u>PART NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>QTY.</u></b>
1	8800033	CAP, CHROME, PTO	1
2	8800012	ADAPTER, PTO	1
3	1061107	HOUSING, PTO-SRM60+	1
	1080018	HOUSING, PTO-SRM80+	1
4	1064514	O-RING SRM60+	1
	1080041	O-RING SRM80+	1
5	4400220	SCREW, HEX HD CAP, 5/16-18 X 1	3
6	1200077	WASHER, LOCK, 5/16	3
7	1064510	SEAL, OIL, PTO-SRM60+	1
	1080040	SEAL, OIL, PTO-SRM80+	1
8	1200253	RETAINING RING, EXT.-SRM60+	6
	1200316	RETAINING RING, EXT.-SRM80+	6
9	1200254	RETAINING RING, INT.-SRM60+	1
	1061909	RETAINING RING, INT.-SRM80+	1
10	1030148	BEARING, BALL-SRM60+	2
	1064501	BEARING, BALL-SRM80+	2
11	1064458	SHAFT, PTO-SRM60+	1
	1080019	SHAFT, PTO-SRM80+	1
12	1064459	GEAR, BEVEL, PTO-SRM60+	1
	1080017	GEAR, BEVEL, PTO-SRM80+	1
13	1064428	GEAR, HELICAL, PTO-SRM60+	1
	1080015	GEAR, HELICAL, PTO-SRM80+	1
14	4400231	KEY, 1/4 SQ. X 1, CL 1, RND ENDS	1
15	4400231	KEY, 1/4 SQ. X 1, CL 1, RND ENDS SRM60+	1
	4400500	KEY 1/4 SQ. X 1 1/2 LG CL 1, RND ENDS SRM80+	1
16	4400006	SPRING, 1/4 O.D., COMPRESSION	1
17	4400016	BALL, STEEL, 1/4 DIA.	1
18	4400229	KNOB ASSEMBLY, PTO	1
19	4400210	WASHER, PTO	1
20	8900019	SCREW SFHD 6-32 X 3/4	2

**P.T.O. ASSEMBLY**  
**FIGURE 5**



**INPUT ASSEMBLY**  
**FIGURE 6**

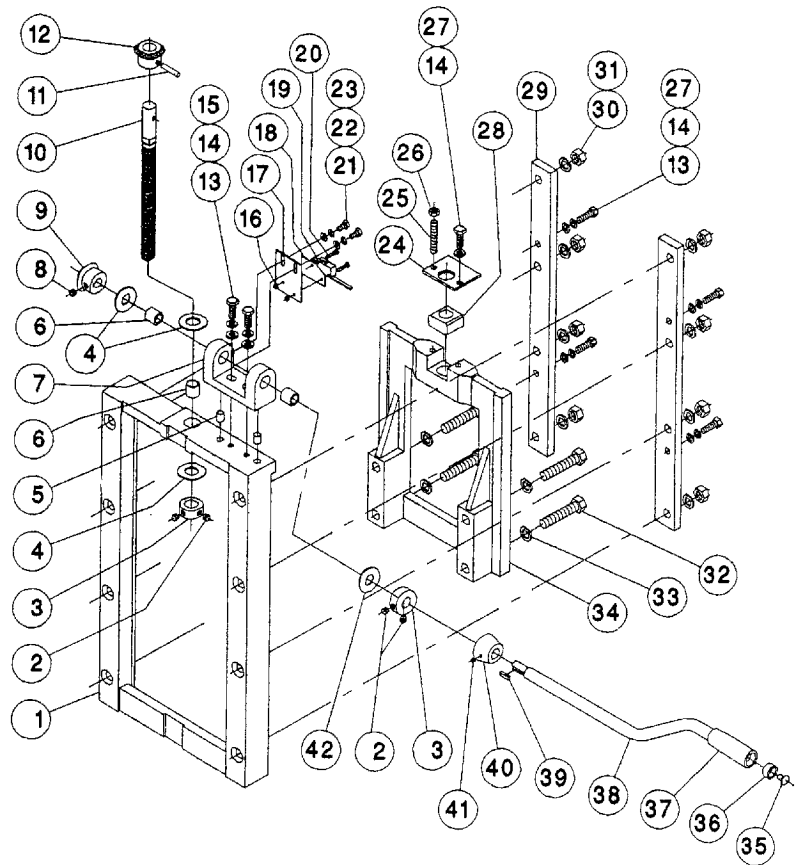
<u>ILLUS. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
1	1064511	SEAL, INPUT	1
2	1200316	RETAINING RING, EXTERNAL	2
3	1061909	RETAINING RING, INTERNAL	2
4	1064501	BEARING, INPUT HOUSING	2
5	1064515	O-RING, INPUT HOUSING	1
6	1064430	HOUSING, INPUT	1
7	1200077	WASHER, LOCK, 5/16	4
8	1200039	SCREW, HX HD CAP, 5/16-18 X 3/4, ZINC PLTD	4
9	1064433	SLEEVE, INPUT SHAFT	1
10	1064532	GEAR/SHAFT, INPUT	1



**BOWL LIFT ASSEMBLY**  
**FIGURE 7**

<u>ILLUS. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION.</u>	<u>QTY.</u>
1	1062190	FRAME	1
2	4400407	SCREW, SET, 5/16-18 X 1/4 LG.	4
3	1062193	COLLAR, LEAD SCREW (COMES WITH ILLUSTRATION # 2)	2
4	1061821	WASHER, THRUST	3
5	1200403	PIN, DOWEL, 3/8 DIA. X 1/2 LG.	2
6	1061820	BEARING	3
7	1064452	YOKE	1
8	1200036	SCREW, SET, 5/16-24 X 3/8 LG.	1
9	1062217	GEAR, MITER, HANDLE SHAFT	1
10	1064457	SHAFT, LEAD SCREW	1
11	4400004	PIN, ROLL, 1/4 DIA. X 1-1/8 LG.	1
12	1062970	GEAR, MITER, LEAD SCREW	1
13	1200078	WASHER, 5/16	1
14	1200077	WASHER, LOCK, 5/16	7
15	1200369	SCREW, HEX HD CAP 5/16-18 X 1 1/4	2
16	1200433	NUT, ELASTIC STOP, 4-40	2
17	1064411	BRACKET, BOWL LIFT SWITCH	1
18	7100023	INSULATION BARRIER	1
19	7100103	SWITCH, BOWL LIFT	1
20	1200432	SCREW, HEX HD 4-40 X 3/4	2
21	1200076	WASHER, #10	2
22	4400065	WASHER, LOCK, #10	2
23	1200012	SCREW, PHILLIPS PAN HD., 10-32 X 1/2	2
24	1062187	PLATE, RETAINER	1
25	1200431	SCREW, SET, 5/16-18 X 2	1
26	1200063	NUT, KEP, 5/16-18	1
27	4400220	SCREW, HEX HD CAP 5/16-18 X 1	5
28	1064444	NUT, FLOATING	1
29	1062191	GIBB	2
30	1200083	WASHER, 3/8	8
31	1200388	NUT, ELASTIC STOP, 3/8-16	8
32	1200402	SCREW, HEX HD CAP 1/2-20 X 2-3/4	4
33	1200085	WASHER, LOCK, 1/2	4
34	1062189	SLIDE	1
35	1200325	SCREW, FLAT HD SCK CAP, 1/4-20 X 3/4, SS	1
36	1064416	CAP, B.L. HANDLE	1
37	1064516	HANDLE	1
38	1080025	LEVER, B.L.	1
39	4400232	KEY, 3/16 SQ. X 1 LG., CL ONE, RND ENDS	1
40	1064450	HUB, B.L.	1
41	4400154	SCREW, SET, #10-32 X 1/4	1
42	1000517	WASHER, BRONZE, 3/4 I.D X 1-1/8 O.D. X 1/8	1

**BOWL LIFT ASSEMBLY**  
**FIGURE 7**

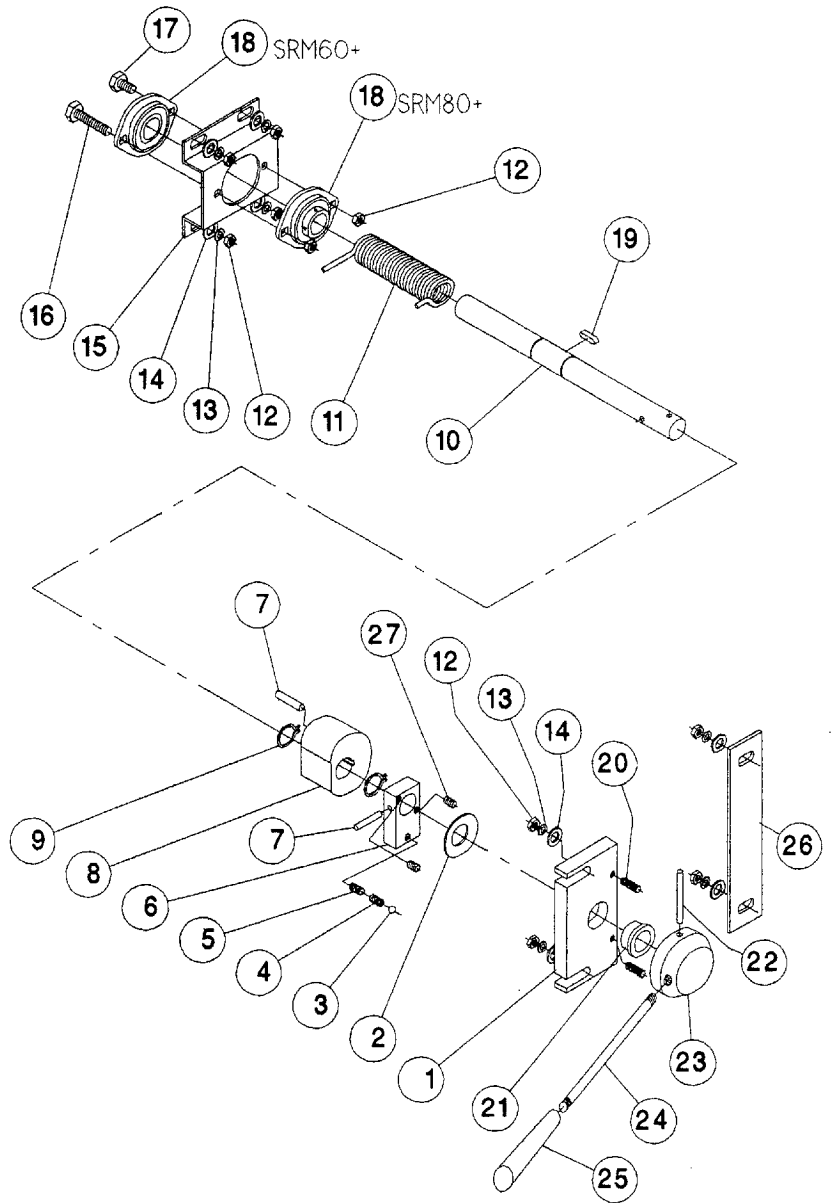




**SPEED CONTROL ASSEMBLY**  
**FIGURE 8**

<b><u>ILLUS. NO.</u></b>	<b><u>PART NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>QTY.</u></b>
1	1064436	HOUSING, DETENT	1
2	1200324	WASHER, BELLEVILLE	1
3	4400016	BALL, STEEL, 1/4" DIA.	1
4	4400006	SPRING, 1/4" O.D.	1
5	1200036	SCREW, SET, 5/16-24 X 3/8	1
6	1064437	BLOCK, S.C. LOCATING	1
7	1200321	PIN, ROLL, 1/4 DIA. X 1-1/2, PLAIN FINISH	2
8	1064438	CAM, S.C.	1
9	1200317	RETAINING RING	2
10	1064434	SHAFT, S.C. CAM-SRM60+	1
	1080026	SHAFT, S.C. CAM-SRM80+	1
11	1064439	SPRING, TORSION	1
12	1200063	NUT, KEP	10
13	1200078	WASHER, 5/16	8
14	1200083	WASHER, 5/16 LG. O.D.	8
15	1080027	BRACKET, S.C. BEARING HOLDER	1
16	1200327	SCREW, HEX HD 5/16-18X2, FULLY THD	1
17	1200039	SCREW, HEX HD 5/16-18 X 3/4	2
18	1064508	BEARING, FLANGE	1
19	4400231	KEY, ROUND END, 1/4" SQ. X 1	1
20	1200319	SCREW, SOCKET HD SET, 5/16-18 X 1	2
21	1064502	BEARING, BRONZE FLANGE	1
22	1200361	PIN, ROLL, 1/4 DIA. X 3	1
23	1064435	HUB, S.C.	1
24	1020048	LEVER, S.C.	1
25	4400202	KNOB, S.C.	1
26	1064456	STRAP, SPEED CONTROL	1
27	1200434	SCREW, SET, 5/16-23 X 1 1/8	2

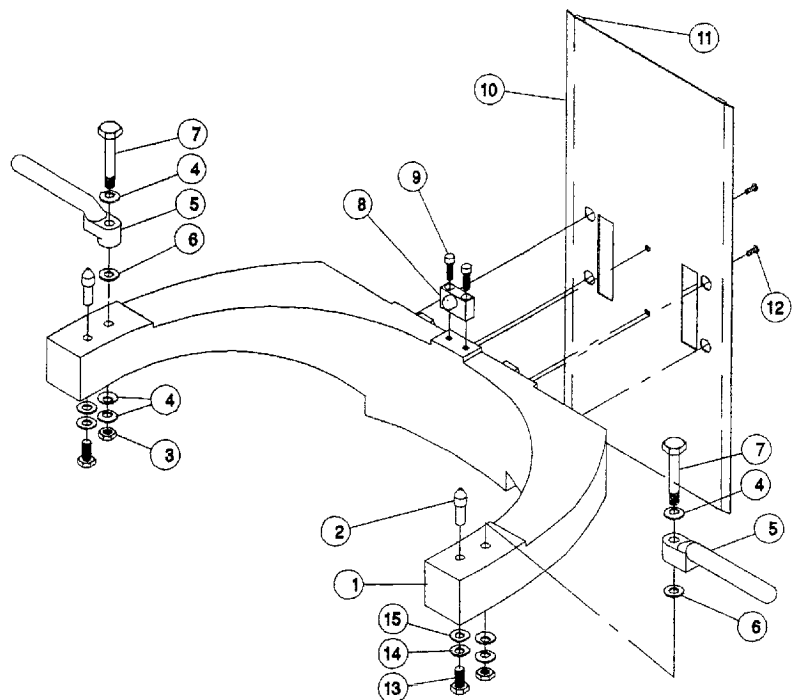
**SPEED CONTROL ASSEMBLY**  
**FIGURE 8**



**BOWL SUPPORT ASSEMBLY**  
**FIGURE 9**

<u>ILLUS. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
1	1061028	SUPPORT, BOWL-SRM60+	1
	1080028	SUPPORT, BOWL-SRM80+	1
2	1064454	PINS, BOWL SUPPORT-SRM60+	2
	1080030	PINS, BOWL SUPPORT-SRM80+	2
3	1200388	NUT, ELASTIC STOP 3/8-16	2
4	1200091	WASHER, BELLEVILLE	4
5	1064322	CLAMP, BOWL	2
6	1200093	SHIM, WASHER	2
7	1200449	SCREW HEX HD 3/8-16 X 3 1/2	2
8	1064455	CLAMP, BOWL, REAR-SRM60+	1
	1080029	CLAMP, BOWL, REAR-SRM80+	1
9	1200322	SCREW, SOCKET HD, 1/4-20 X 1 -SRM60+	2
	1200439	SCREW, SOCKET HD, 1/4-20 X 1 1/2 -SRM80+	2
10	1080037	COVER, SLIDE, MOVEABLE	1
11	1020040	STRIP, RUBBER, 21"	2
12	1200008	SCREW, PHILLIPS PAN HD. #8-32 X 3/8"	2
* 13	1200382	SCREW, 1/4-20UNC-2B X 7/8	2
* 14	4400005	LOCK WASHER, 1/4	2
* 15	1200075	WASHER, 1/4	2

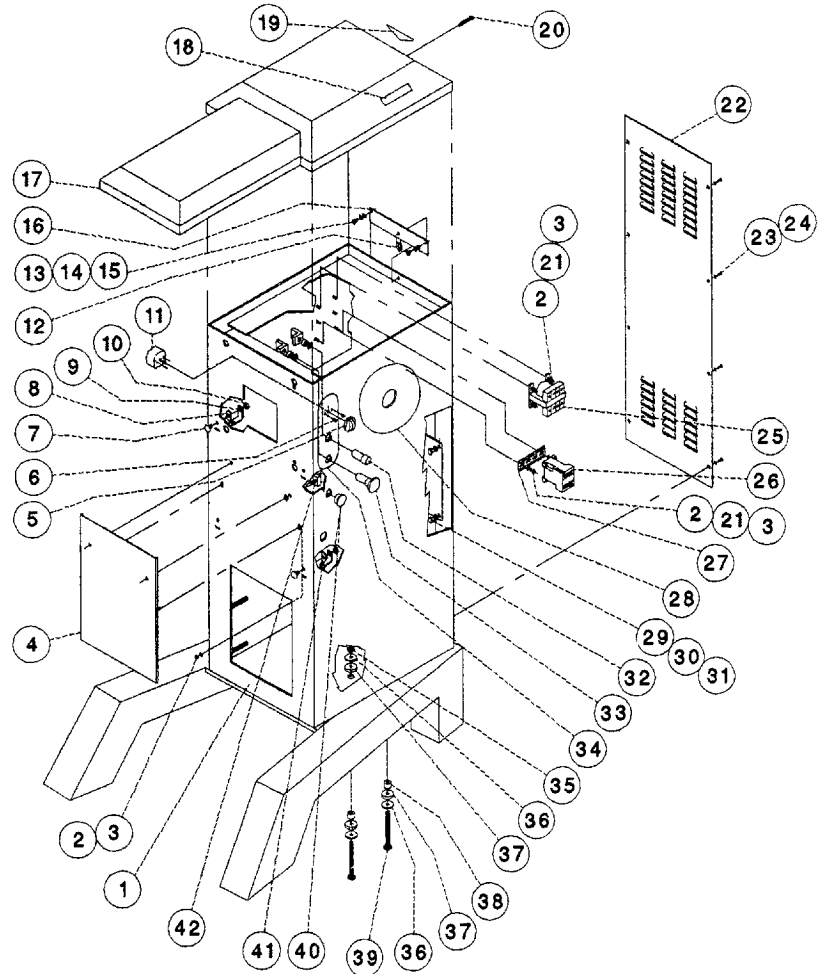
\* INCLUDED ON SRM80+ ONLY.



**HOUSING ASSEMBLY**  
**FIGURE 10**

<b>ILLUS. NO.</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
1	1064552	HOUSING, MIXER SRM60+	1
	1080053	HOUSING, MIXER SRM80+	1
2	1200060	NUT, HEX 10-32	2
		WITH TRANSFORMER CONTROL	6
3	1200076	WASHER, FLAT #10	2
		WITH TRANSFORMER CONTROL	6
4	1064554	COVER, FIXED SLIDE-SRM60+	1
	1080055	COVER, FIXED SLIDE-SRM80+	1
5	7100028	KNOB, TIMER	1
6	1200318	SCREW, M4 X .7 MM, CHZ. HD X 8MM LONG	2
7	4400413	BOLT, CARR 1/4-20 X 3/4 SS	4
8	4400003	SPACER	4
9	1012441	BRACKET, UPPER	2
10	4400141	NUT, KEP 1/4-20	4
11	7100027	TIMER	1
12	4400001	NUT, TINNERMAN	1
13	1200008	SCREW, PHILLIPS PAN HD. #8-32 X 3/8	2
14	4400183	WASHER, LOCK, #8	2
15	1200092	WASHER, FLAT, #8	2
16	1024042	SPRING, TOP COVER	1
17	1064412	COVER, TOP-SRM60+	1
	1080023	COVER, TOP-SRM80+	1
18	4400113	LABEL, STOP, UNPLUG (Not for Europe)	1
19	4400114	LABEL, COVER REMOVAL (Not for Europe)	1
20	1200422	SCREW, SHEET METAL, TOP COVER	1
	1200451	SCREW (SECURITY OPTION)	1
21	4400065	WASHER, LOCK, #10	2
		WITH TRANSFORMER	6
22	1064419	PANEL, REAR	1
23	4400208	SCREW, PHILLIPS HD. 1/4-20 X 1/2	8
	1200453	SCREW (SECURITY OPTION)	8
24	1200075	WASHER, 1/4 I.D.	8
25	1033326	TRANSFORMER, 440V	1
26	7100005	STARTER, 220-240V, 50HZ, 3PH	1
	7100006	STARTER, 208-240V, 60HZ 3PH	1
	7100007	STARTER, 380V, 50HZ, 3PH, 460V, 60HZ, 3PH	1
	7100008	STARTER, 220-240V, 50HZ, 1PH	1
	7100009	STARTER, 208-240V, 60HZ, 1PH	1
	7100114	STARTER, 200V, 50/60HZ, 3PH	1
27	7100010	BRACKET, DIN RAIL	1
28	4400350	LABEL, SPEED INDICATOR-SRM60+	1
	4400336	LABEL, SPEED INDICATOR-SRM80+	1
29	1064453	PANEL, REINFORCEMENT	1
30	4400005	LOCK WASHER 1/4	4
31	1200328	SCREW, HEX HD 1/4-20 X 5/16	4
32	7100101	SWITCH, PUSH BUTTON, START	1
33	7100102	SWITCH, PUSH BUTTON, STOP	1
34	4400311	LABEL, START/STOP/TIMER	1
35	4400015	NUT, KEP 3/8-16	4
36	1200331	WASHER, 3/8	8
37	1064461	MOUNT, MOTOR, 3/8 ID	8
38	1064460	ISOLATOR, MOTOR, 3/8 ID	4

39	1200330	BOLT, MOTOR MOUNT 3/8-16 X 4-1/2	4
40	8800053	PLUG, BOWL LIFT SWITCH	1
41	1012442	BRACKET, LOWER	2
42	7100123	SWITCH, GUARD	2
43	1200450	TOOL KIT (SECURITY OPTION)	1

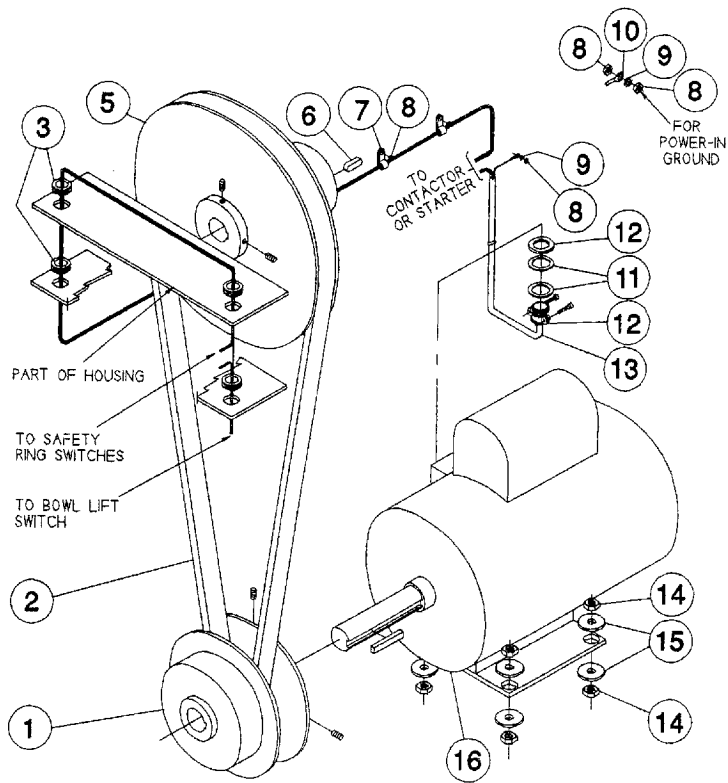
**HOUSING ASSEMBLY****FIGURE 10**

**DRIVE ASSEMBLY**  
**FIGURE 11**

<u>ILLUS. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
1	1064504	PULLEY, VARIABLE, MOTOR (COMES WITH (2) 5/16-18X3/8 SET SCREWS)	1
2	1064505	BELT, VARIABLE-SRM60+	1
	1080035	BELT, VARIABLE-SRM80+	1
3	4400214	BUSHING, HEYCO	4
4		RESERVED	
5	1064503	PULLEY, VARIABLE, INPUT (COMES WITH (2) 5/16-18X3/8 SET SCREWS)	1
6	4400231	KEY, 1/4 SQ. X 1	1
7	4400101	CLAMP, CORD	2
8	1200060	NUT, HEX #10-32	5
9	4400065	WASHER, LOCK #10	2
10	1061967	RING, TERMINAL, #10, 12 GAUGE	1
11	4400402	WASHER, CABLE CONNECTOR	2
12	4400401	CONNECTOR, CABLE, 3/8	1
13	8800206	CORD, MOTOR, 1 PHASE	1
	8800207	CORD, MOTOR, 3 PHASE	1
14	4400015	NUT, KEP 3/8-16	8
15	4400127	WASHER, 3/8	8
16 *	1064520	MOTOR, 208-240V, 60HZ, 1 PH	1
*	1064521	MOTOR, 220-240V, 50HZ, 1 PH	1
*	1064522	MOTOR, 208-240/460V, 60HZ, 3 PH	1
*	1064523	MOTOR, 220/380/440V, 50HZ, 3 PH	1
*	1064524	MOTOR, 200V, 50/60HZ, 3PH	1
17	1061973	WIRE NUT (NOT SHOWN) 1PH, 3PH LOW VOLT 3PH HIGH VOLT	4 6
18	8800230	CORD, POWER, 230V, 50HZ, 1PH (CE & BRITISH) (NOT SHOWN)	1
	8800231	CORD, POWER, 400V, 50HZ, 1PH (CE & BRITISH) (NOT SHOWN)	1
19	8800098	PLUG, POWER 1 PH (EUROPE) (NOT SHOWN)	1
20	7100107	STRAIN RELIEF (EUROPE) (NOT SHOWN)	1

\* INCLUDES 1/4 SQ. X 2 KEY

**DRIVE ASSEMBLY**  
**FIGURE 11**

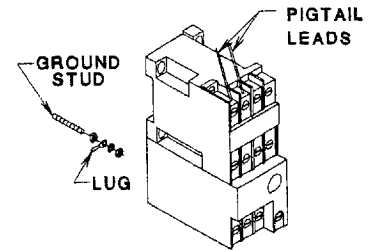


## ELECTRICAL CONNECTIONS

Electrical connections should be made by qualified workmen who will observe all applicable safety codes and the National Electrical Code.

### SINGLE PHASE

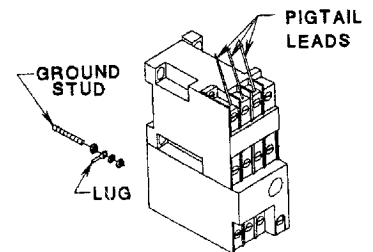
Before making electrical connections, check the specifications on the data plate (located on the rear access panel) to assure they agree with those of your electrical service.



**WARNING: DISCONNECT ELECTRICAL POWER SUPPLY AT THE MAIN CIRCUIT BOX AND PLACE A TAG INDICATING THE CIRCUIT IS BEING WORKED ON.**

### THREE PHASE

A hole of 1/2" conduit is located in the left surface of the housing in the rear uppermost location. Connect the input power leads to the pigtail leads for the motor controller. A solder less lug is provided for the service ground lead. Secure service ground to the grounding stud located to the left of the conduit hole.



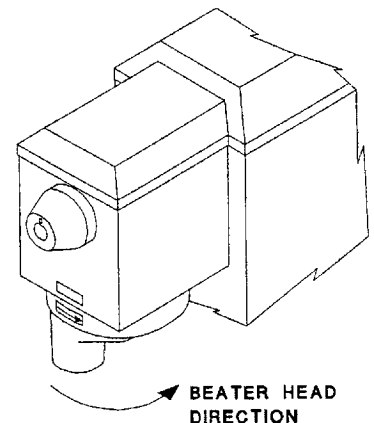
Three-phase machines must be connected so the beater head (planetary) turns in the direction of the arrow (left to right). To check the direction of rotation, turn the power disconnect switch "ON". Place timer on "HOLD". Energize machine momentarily by pushing "START" then "STOP" and verify the direction of rotation.

### MIXER ROTATION

**WARNING: DISCONNECT ELECTRICAL POWER SUPPLY AT THE FUSED DISCONNECT SWITCH AND PLACE A TAG INDICATING THE CIRCUIT IS BEING WORKED ON.**

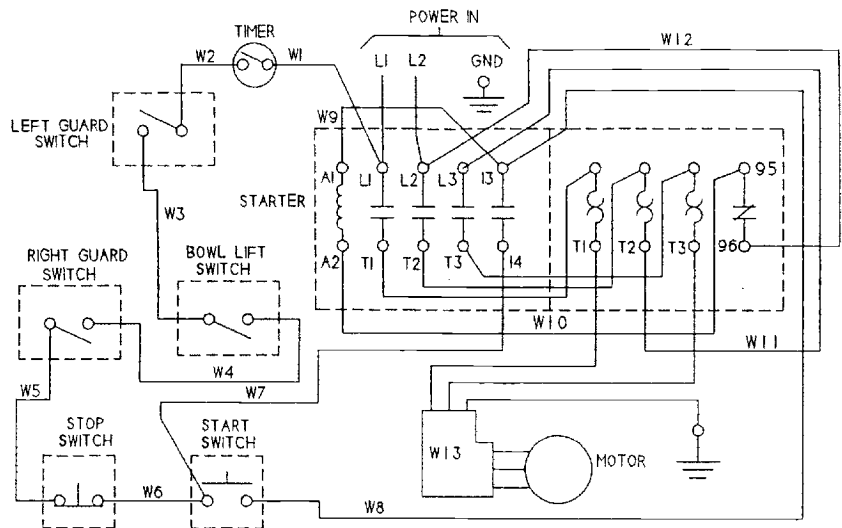
If motor rotation is incorrect, interchange any two of the power supply leads.

**NOTE:** It is not necessary to remove the top cover of the mixer in order to perform the electrical installation. Only the rear access panel (Fig.10 [22]) need be removed.





**WIRING DIAGRAM**  
**(208-240V, 60HZ, 1PH) (220-240V, 50HZ, 1PH)**  
**Figure 12A**



WIRE TABLE								
PART NUMBER	WIRE NO.	GA	SEE NOTE	SRM60+ LENGTH IN INCHES	SRM80+ LENGTH IN INCHES	END A SEE NOTE	END B SEE NOTE	COLOR
8800237 FOR SRM60+	W1	16	3	39	41	1	2	WHITE
	W2	16	3	22	23	2	2	WHITE
	W3	16	3	10	11	2	2	BLACK
	W4	16	3	19	19 1/2	2	2	BLACK
8800238 FOR SRM80+	W5	16	3	8	9 1/2	1	2	RED
	W6	16	3	2 1/2	2 1/2	1	1	RED
	W7	16	3	45	49	1	1	BLACK
	W8	16	3	42	44	1	1	RED
PART OF STARTER	W9	18	3			1	1	RED
	W10	18	3			1	1	RED
	W11	12	3			1	1	BLACK
	W12	18	3			1	1	RED
8800206	W13							CORD

NOTES: 1. ATTACH DOUBLE CRIMP FERRULE.

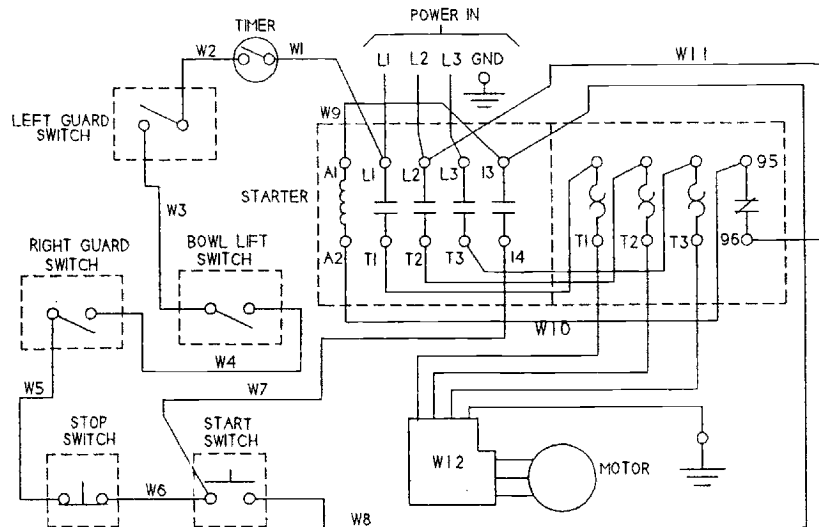
2. ATTACH DOUBLE CRIMP 1/4" FEMALE QUICK DISCONNECT FULLY INSULATED.

3. MATERIAL: 1015 TEW CSA AND UL APPROVED.

**IMPORTANT:** Before making electrical connections, check the specifications on the data plate (located on the rear access panel) to assure they agree with those of your electrical service.

**WARNING:** Whenever maintenance is being performed, or whenever the top cover or rear access panel have been removed, DISCONNECT electrical cord and place a tag on it indicating the mixer is being worked on.

**WIRING DIAGRAM**  
**(208-240V, 60HZ, 3PH) (220V, 50HZ, 3PH) (200V, 50/60HZ, 3PH)**  
**Figure 12B**



WIRE TABLE								
PART NUMBER	WIRE NO.	GA	SEE NOTE	SRM60+ LENGTH IN INCHES	SRM80+ LENGTH IN INCHES	END A SEE NOTE	END B SEE NOTE	COLOR
8800237 FOR SRM60+	W1	16	3	39	41	1	2	WHITE
	W2	16	3	22	23	2	2	WHITE
	W3	16	3	10	11	2	2	BLACK
	W4	16	3	19	19 1/2	2	2	BLACK
	W5	16	3	8	9 1/2	1	2	RED
8800238 FOR SRM80+	W6	16	3	2 2/2	2 1/2	1	1	RED
	W7	16	3	45	49	1	1	BLACK
	W8	16	3	42	44	1	1	RED
PART OF STARTER	W9	18	3			1	1	RED
	W10	18	3			1	1	RED
	W11	18	3			1	1	RED
8800207	W12	CORD						

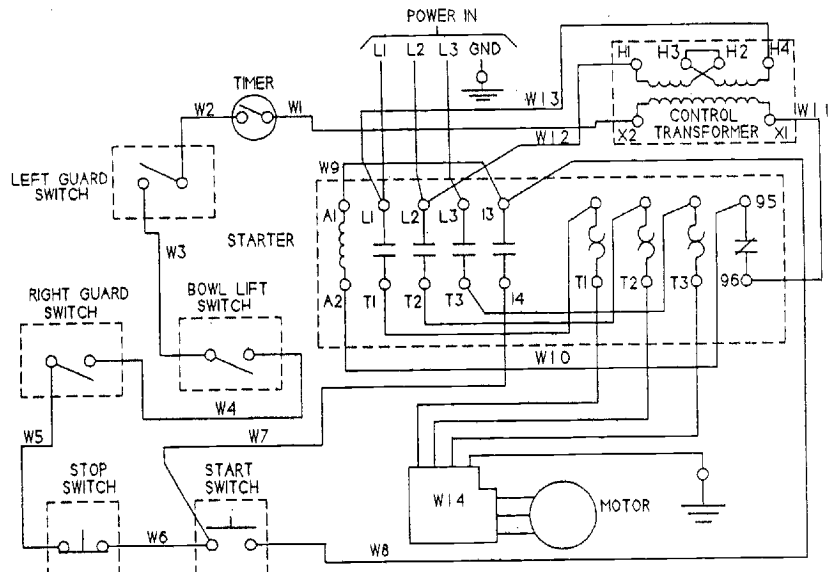
- NOTES: 1. ATTACH DOUBLE CRIMP FERRULE.  
 2. ATTACH DOUBLE CRIMP 1/4" FEMALE QUICK DISCONNECT FULLY INSULATED.  
 3. MATERIAL: 1015 TEW CSA AND UL APPROVED.

**IMPORTANT:** Before making electrical connections, check the specifications on the data plate (located on the rear access panel) to assure they agree with those of your electrical service.

**WARNING:** Whenever maintenance is being performed, or whenever the top cover of rear access panel have been removed, DISCONNECT electrical cord and place a tag on it indicating the mixer is being worked on.

**WIRING DIAGRAM**  
**(460V, 60HZ, 3PH) (380V, 50HZ, 3PH)**

Figure 12C



WIRE TABLE								
PART NUMBER	WIRE NO.	GA	SEE NOTE	SRM60+ LENGTH IN INCHES	SRM80+ LENGTH IN INCHES	END A SEE NOTE	END B SEE NOTE	COLOR
8800237 FOR SRM60+	W1	16	3	39	41	1	4	WHITE
	W2	16	3	22	23	2	2	WHITE
	W3	16	3	10	11	2	2	BLACK
	W4	16	3	19	19 1/2	2	2	BLACK
8800238 FOR SRM80+	W5	16	3	8	9 1/2	1	2	RED
	W6	16	3	2 1/2	2 1/2	1	1	RED
	W7	16	3	45	49	1	1	BLACK
	W8	16	3	42	44	1	1	RED
PART OF STARTER	W9	18	3			1	1	RED
	W10	18	3			1	1	RED
	W11	16	3			1	4	RED
	W12	16	3	11	11	1	4	BLACK
	W13	16	3	11	11	1	4	WHITE
	W14	CORD						

- NOTES: 1. ATTACH DOUBLE CRIMP FERRULE.  
 2. ATTACH DOUBLE CRIMP 1/4" FEMALE QUICK DISCONNECT FULLY INSULATED.  
 3. MATERIAL: 1015 TEW CSA AND UL APPROVED.  
 4. NO. 10 RING TERMINAL, AMP 60772-1

**IMPORTANT:** Before making electrical connections, check the specifications on the data plate (located on the rear access panel) to assure they agree with those of your electrical service.

**WARNING:** Whenever maintenance is being performed, or whenever the top cover or rear access panel have been removed, DISCONNECT electrical cord and place a tag on it indicating the mixer is being worked on.